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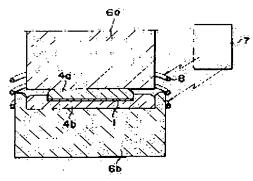
KIMURA SUSUMU

## (54) BONDING METHOD AND BONDED PRODUCT

### (57) Abstract:

PURPOSE: To bond a material efficiently and firmly in a short time, by inserting a bonding medium prepared by coating both surfaces of a metallic film with a heatsensitive adhesive between a pair of adherends under pressed conditions, applying a high-frequency induction current thereto, and melting the adhesive under heating. CONSTITUTION: Both surfaces of a metallic film 2, preferably an aluminum film having a thickness of  $50\mu$ , are coated with a heat-sensitive 3, preferably ethylenevinyl acetate copolymer in a film thickness preferably  $\leq 10\mu$  to give a film-like bonding medium 1. The resultant medium 1 is then inserted between a pair of molded synthetic resin articles (4a) and (4b), held and placed between jigs (6a) and (6b) and pressed, and the molded





synthetic resin article (4a) is then lightly prssed to the other molded article (4b). A coil 8 is wound around the articles (4a) and (4b) and jigs (6a) and (6b) to supply a high-frequency current to the coil 8. A high-frequency current is then generated in the metallic film 2 to heat and melt the adhesive 3 and bond the molded articles (4a) and (4b) to each other. EFFECT: A beautiful bonded part can be obtained in a transparent synthetic resin.

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#### **LEGAL STATUS**

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LARGE MARK SPECIFIC LARKER

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PA - (YOSI) YOSHIDA KOGYO KK

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- JP1057711B B 19891207 DW199002 000pp

PR - JP19800149280 19801027

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- AB J57073064 Adhesive film prepd. by coating pressure sensitive adhesive on both sides of metal film, is held under pressure between materials to be bonded and the adhesive is melted by induction heating through application of high frequency electric current. The metal film is about 50 microns thick and pref. is aluminium film.
  - The adhesive is selected from hot-melt types, pref. ethylene-vinyl acetate and ethylene-acrylic ester copolymers and it is not more than 10 microns thick. A slight depression is pref. formed to accommodate the adhesive film and insure correct placement.
  - Method ensures uniform application of adhesive and prevents impairment of aesthetic appearance of bonded prod. and is esp. suitable for assembling plastic mouldings. Strong bonding is accomplished efficiently in a short time.
- IW ASSEMBLE PLASTIC MOULD FORMING ADHESIVE FILM COMPOSE METAL STRIP COATING ADHESIVE INSERT ARTICLE BOND HEAT
- IKW ASSEMBLE PLASTIC MOULD FORMING ADHESIVE FILM COMPOSE METAL STRIP COATING ADHESIVE INSERT ARTICLE BOND HEAT

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PAW - (YOSI) YOSHIDA KOGYO KK

TI - Assembling e.g. plastic moulds - by forming adhesive film composed of metal strip coated with adhesive, inserting between articles to be bonded and heating